Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

LIFEBOOK E8310 / E8410
Your expert without compromises

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The LIFEBOOK E Series follows a simple philosophy: only the best will do. It is the perfect choice for the performance orientated office user: get latest technology to turn any work into a pleasant experience. The result is mobile performance powerful as desktops.

Its flexible design allows configuring the system exactly the way you like it. Top performance with only 2.5kg makes it one of the lightest notebooks in its class. The comprehensive security features like separate SmartCard reader make your sensible data safe and secure.

There's embedded UMTS/HSUPA, WLAN and Bluetooth for perfect connectivity – anytime, anywhere!

Elegance

Designed for the most demanding mobile users, LIFEBOOKs are the perfect synthesis of form, function and style.

- Modular bay fitting an extra drive or battery for more flexibility
- Dual pointing devices with second set of mouse buttons: Touchpad and touchstick (optional) for ergonomic working

Ergonomics

- Enjoy the viewing quality of brilliant TFT displays and graphics:
- Comfort with full sized keyboard
- Port Replicator optionally available for simple connection to all your peripherals

Connectivity

- Highest connectivity with embedded UMTS/HSUPA
- Bluetooth, Wireless LAN optional integrated
- Long lasting battery for independent working with first and second battery

Reliability

- Hard disk drive ShockSensor minimizes data loss and guarantees a higher reliability of your data
- Spill-proof keyboard offers protection against system damage

Manageability

- Integrate the bundled system management software DeskView Admin in every common IT infrastructure
- Seamless integration in heterogeneous enterprise management systems
- Enhanced manageability with Intel® Centrino® Pro Technology with LIFEBOOK E8410

Security

- Trusted platform module (TPM 1.2) provides more secure applications and makes transitions safe
- Maximum of security for the own data with integrated fingerprint[1] sensor and SmartCase™ Logon+ security software

Windows Vista Business

System	LIFEBOOK E8310	LIFEBOOK E8410 Intel	LIFEBOOK E8410 Nvidia
Processor			
Intel® Celeron® M Processor	540 (1.86GHz)	-	-
Second level cache	1 MB	-	-
Front side bus (FSB)	533 Mhz	-	-
Intel® Core™2 Duo Processor	T7100 (1.8GHz)	T7100 (1.8GHz)	T7100 (1.8GHz)
Second level cache	2 MB	2 MB	2 MB
Front side bus (FSB)	800 MHz	800 MHz	800 MHz
Intel® Core™2 Duo Processor	T7300 (2.0GHz) T7500 (2.2GHz) T7700 (2.4GHz)*	T7300 (2.0GHz) T7500 (2.2GHz) T7700 (2.4GHz)*	T7300 (2.0GHz) T7500 (2.2GHz) T7700 (2.4GHz)*
Second level cache	4 MB	4 MB	4 MB
Front side bus (FSB)	800Mhz	800Mhz	800Mhz
Chipset			
Northbridge	Intel® 965GM	Intel® 965GM	Intel® 965PM
Southbridge	ICH 8-M	ICH 8-M	ICH 8-M
Memory			
DIMM slots	2	2	2
DDR2-667 SDRAM, 667 MHz	up to 4GB	up to 4GB	up to 4GB
BIOS			
BIOS Flash EPROM	BIOS based on Phoenix TrustedCore Notebook	BIOS based on Phoenix TrustedCore Notebook	BIOS based on Phoenix TrustedCore Notebook
Interfaces			
SIM card slot	1	1	1
Infrared link (Fast IrDa 1.1, 4 Mbps)	1	1	1
Type I/II PC Card slot	1	1	1
SmartCard reader	1	1	1
Express card 34/54	1	1	1
Memory card slot (SD, MS and MSPRO)	1	1	1
USB 2.0	4	4	4
S-Video out (TV-out)	1	1	1
VGA	1	1	1
Modem RJ-11	optional	optional	optional
LAN RJ-45	1	1	1
Audio-in (line-in / microphone)	1	1	1
Audio-out (line-out / headphone)	1	1	1
DC-in	1	1	1
IEEE1394	-	1	1
Serial port	1	1	1
Parallel port	1	1	1
Kensington Lock	1	1	1
Docking connector for Port Replicator	1	1	1
Port Replicator interfaces (optional):			
USB 2.0	4	4	4
VGA	1	1	1
DVI-D	1 (with HDCP support)	1 (with HDCP support)	1 (with HDCP support)
Serial port	1	1	1
Parallel port	1	1	1
LAN RJ-45	1	1	1
PS/2	1	1	1
DC-in	1	1	1
Microphone	1	2	2
Headphone	1	1	1
Power on switch	1	1	1
Kensington Lock	1	1	1
Camera	-	optional	optional
Modem on board			
56K V.92 modem MDC1.5	optional	optional	optional
LAN on board			
built-in 10/100/1000 Mbps Marvell 88E8055	x	-	-
built-in 10/100/1000 Mbps Intel® 82566 MC	-	x	-
built-in 10/100/1000 Mbps Intel® 82566 MM for iAMT	-	-	x
Wireless Technologies (WLAN)			
Import and usage according to country-specific regulations.			
3 Dual band WLAN antennas, 2 UMTS antennas			
Intel® Pro Wireless 4965 a/g/n (MIMO support)	optional	optional	optional
Atheros Minicard b/g 802.11 b/g	optional	optional	optional
WiFi certified	x	x	x
Integrated UMTS/HSUPA, also supported are GPRS and EDGE or higher	optional (downlink 3.6 Mbit/s, uplink 384kbit/s)	optional (downlink 7.2, uplink 2.0)	optional (downlink 7.2, uplink 2.0)
Bluetooth			
Bluetooth V2.0	optional, with separate antenna	optional, with separate antenna	optional, with separate antenna
Audio			
Stereo speakers	x	x	x
Sound chip	Realtek ALC262.	Realtek ALC262	Realtek ALC262.
Internal microphone	2	2	2

System	LIFEBOOK E8310	LIFEBOOK E8410 Intel	LIFEBOOK E8410 Nvidia
Keyboard and pointing device			
Keyboard	Spill proof keyboard, 86 keys, 19mm pitch, 2.7mm key stroke	Spill proof keyboard, 86 keys, 19mm pitch, 2.7mm key stroke	Spill proof keyboard, 86 keys, 19mm pitch, 2.7mm key stroke
Touchpad	with two mouse buttons and one scroll button	with two mouse buttons and one scroll button	with two mouse buttons and one scroll button
Touchstick	optional	optional	optional
Second set of mouse buttons	x	x	x
Fingerprint sensor	-	Optional	Optional
Launch Keys	x	x	x
Eco Button	x	x	x
Recovery Button	x	x	x
Lock workstation Button	x	x	x
Mobility Center Button	x	x	x
Status LCD (status panel)	x	x	x
Graphics			
Intel® X3100 integrated graphics	x	x	
Nvidia Go 8400M extra graphics with 128MB G-DDR3 memory			x
Direct X9	x	x	x
Direct X10	-	tbd	x
Pixelshader 3.0	x	x	x
Pixelshader 4.0	-	tbd	x
DualView (Windows XP **&Vista**)	x	x	x
Display			
15-inch TFT XGA / 1024 x 768 pixel	x	-	-
15-inch TFT SXGA+ / 1400 x 1050 pixel	x	-	-
15.4-inch TFT WXGA / 1280 x 800 pixel	-	Via customizing (lead time 2-3 month)	Via customizing (lead time 2-3 month)
15.4-inch TFT WSXGA+ / 1680 x 1050 pixel	-	x	x
Max. resolution for external displays	1920 x 1200 / true color / 85 Hz (tbd.)	1920 x 1200 / true color / 85 Hz (tbd.)	1920 x 1200 / true color / 85 Hz (tbd.)
Hard disk drives (internal) *			
S.M.A.R.T.	x	x	x
ShockSensor for HDD shock protection	x	x	x
80 GB S-ATA 150 (5400 rpm)	x	x	x
120 GB S-ATA 150 (5400 rpm)	x	x	x
160 GB S-ATA 150 (5400 rpm)	x	x	x
* 1 Gbyte equals one billion bytes, when referring to hard disk drive capacity; accessible capacity may vary, also depending on used software and tool.			
Modular Drives			
DVD super-multi incl. RAM	x	x	x
More information in specific Data Sheet: http://www.fujitsu-siemens.com/optical_drives/			
Manageability			
Please refer to http://www.fujitsu-siemens.com/solutions/business_solutions/manageability/featurefinder.html	.	.	.
Supported Standard			
WMI / CIM / WBEM	x	x	x
PXE	x	x	x
BootP	made4you	made4you	made4you
Security			
Physical security			
Kensington Lock support	x	x	x
System Security			
Trusted Platform module 1.2	optional	optional	optional
Symantec Norton Internet Security	x	x	x
User Security			
User and supervisor BIOS password	x	x	x
SystemLock BIOS SmartCard security	x	x	x
Hard disk password	x	x	x
Integrated Fingerprint Sensor	-	optional	optional
Separate SmartCard slot	x	x	x
SmartCase Logon+	optional	optional	optional
Power supply			
1st Li-Ion battery 6 cell 5200mAh (56.2Wh)	x	-	-
1st Li-Ion battery 8 cell 5200mAh (74.9Wh)	-	x	x
2nd Li-Ion battery 6 cell 3800mAh (41Wh) (Option)	x	x	x
Battery runtime:			
First battery * (Mobile Mark 2005) [up to]	5,5 h	7h	5h
First + Second battery * (Mobile Mark 2005)	up to 10h	up to 11h	up to 8h
AC adapter 19V/80W Adapter			
Rated voltage (AC input) 100 - 240 V Rated frequency 50 - 60 Hz DC output 19 V, 4.22 A	x	x	-
AC adapter 19V/100W Adapter	-	-	x

Rated voltage (AC input) 100 - 240 V Rated frequency 50 - 60 Hz DC output 19 V, 5.27 A Dynamic charge supported (rapid charge)	x	x	x
Operating temperatures Relative humidity (non-condensing) Ambient temperature	20% - 85% (running) 5° - 35° C	20% - 85% (running) 5° - 35° C	20% - 85% (running) 5° - 35° C
Dimensions / Weight Dimensions (H x W x D) Weight* * Weight may vary depending on actual configuration	38 x 330 x 274 2.5 kg (incl. 1st battery, weight saver)	36 x 357 x 260 2.5 kg (incl. 1st battery, weight saver)	36 x 357 x 260 2.6 kg (incl. 1st battery, weight saver)
Certificates CE Marking CE according to EU Directives 89/336/EEC (EMC) 73/23/EEC (Product safety) CE! (Wireless) CE (Emission/Immunity) R&TTE GS (German ergonomic approval) UL/cUL CB Generic Report CB (Safety) RoHS WHQL TBR21 Energy Star WiFi certified	x x x (with integrated BT and/or WLAN) x x - x x x x x x x (with integrated modem) x x	x x x (with integrated WLAN) x x x x x x x x x x x x	x x x (with integrated WLAN) x x x x x x x x x x x x
Operating System Microsoft Windows XP Professional MicrosoftWindows Vista™ (min. 512 MB RAM necessary) Microsoft Windows Vista™ Premium Ready (min. 1GB RAM / DVD reader necessary)	driver support x x	driver support x x	driver support x x
Software (compatibility / preinstalled) Adobe Acrobat Reader Application panel tool Camera Windwos Vista recovery media Driver and Utility DVD (DUDVD) Eco Power Saving Utility Easy Guide on-line user documentation Nero Essentials Norton Internet Security (incl. Firewall) on DUDVD for Microsoft Windows XP TPM software (with TPM module only) SmartCase Logon+ Toshiba Stack 3.x Toshiba Stack 4.x UMTS watcher Odyssey Client WinDVD for MPEG II decode	x x - optional (extra order number) optional (extra order number) x x x (with DVD super multi drive) x optional optional - x (with Bluetooth) optional (with UMTS) x tbd	x x optional optional (extra order number) optional (extra order number) x x x (with DVD super multi drive) x optional optional - x (with Bluetooth) optional (with UMTS) x tbd	x x optional optional (extra order number) optional (extra order number) x x x (with DVD super multi drive) x optional optional - x (with Bluetooth) optional (with UMTS) x tbd
Accessories (order number) AC-adapter Case Port Replicator Battery Modem adapter set 1: D, UK Modem adapter set 2: SW, NO, FI, DK Modem adapter set 3: CH, A, B, NL, F, I, E, POR http://www.fujitsu-siemens.com/accessories/	S26391-F2474-L600 S26391-F4000-L200 S26391-408-L100 1st: S26391-F405-L800 2nd: S26391-F405-L200 S26391-F3145-L10 S26391-F3145-L20 S26391-F3145-L30	S26391-F408-L300 S26391-F4000-L200 S26391-408-L100 1st: S26391-F405-L810 2nd: S26391-F405-L200 S26391-F3145-L10 S26391-F3145-L20 S26391-F3145-L30	S26391-F408-L300 S26391-F4000-L200 S26391-408-L100 1st: S26391-F405-L810 2nd: S26391-F405-L200 S26391-F3145-L10 S26391-F3145-L20 S26391-F3145-L30
Spare part availability	5 years	5 years	5 years

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